

Effects Categories

B-L ● = low beneficial effects at population level **A-L ○** = low adverse effect at population level
B-M ●● = moderate beneficial effects at population level **A-M ○○** = moderate adverse effects at population level
B-H ●●● = high beneficial effects at population level **A-H ○○○** = high adverse effects at population level
NE = negligible or no effect **U** = unknown

Certainty Categories

C-L = low level of certainty regarding assessment of bundle outcomes
 C-M = moderate level of certainty regarding assessment of bundle outcomes
 C-H = high level of certainty regarding assessment of bundle outcomes

Conservation Element Bundles	COVERED FISH SPECIES							
	Smelt		Sturgeon		Salmonids		Sacramento Splittail	
	Effect	Certainty	Effect	Certainty	Effect	Certainty	Effect	Certainty
Water Operations and Conveyance Bundles								
1. Real-time operation of CVP/SWP	B-L ●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	NE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	B-L ●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	B-L ●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
2. Reduced demand/Delta diversions	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	NE	<input type="checkbox"/> C-L	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
3. Opportunistic exports	B-L ●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M
4. SDA facility	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	A-L ○	<input type="checkbox"/> C-L	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-H	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
5. Isolated facility	B-H ●●●	<input type="checkbox"/> C-L	B-M ●●	<input type="checkbox"/> C-L	B-H ●●●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-H ●●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
6. Bifurcated SDA facility	B-M ●●	<input type="checkbox"/> C-L	B-L ●	<input type="checkbox"/> C-L	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
7. Dual conveyance facility	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	A-L ○	<input type="checkbox"/> C-L	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-L ●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
8. SJR corridor isolated	A-L ○	<input type="checkbox"/> <input type="checkbox"/> C-M	U	<input type="checkbox"/> C-L	B-L ●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	NE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
Entrainment and Predation Mortality Reduction Bundles								
9. Minimize SWP/CVP mortality	NE	<input type="checkbox"/> <input type="checkbox"/> C-M	U	<input type="checkbox"/> C-L	NE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	NE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
10. Minimize non-SWP/CVP entrainment	B-L ●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-L ●	<input type="checkbox"/> <input type="checkbox"/> C-M	NE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	NE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
11. Improve habitat to reduce predation	B-L ●	<input type="checkbox"/> C-L	U	<input type="checkbox"/> C-L	B-L ●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
12. Isolate gravel pits	NE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	NE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	B-L ●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-L ●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
13. Install screens on upstream diversions	NE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	NE	<input type="checkbox"/> <input type="checkbox"/> C-M	NE	<input type="checkbox"/> <input type="checkbox"/> C-M	NE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
Flow-Related Habitat Improvement Bundles								
14. Operate DCC to improve passage	NE	<input type="checkbox"/> <input type="checkbox"/> C-M	NE	<input type="checkbox"/> <input type="checkbox"/> C-M	NE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	B-L ●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
15. Open DCC & install screens at DCC & GS	NE	<input type="checkbox"/> <input type="checkbox"/> C-M	A-L ○	<input type="checkbox"/> <input type="checkbox"/> C-M	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	A-L ○	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
16. Re-operate upstream storage facilities	NE	<input type="checkbox"/> <input type="checkbox"/> C-M	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-H ●●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
17. Improve and create bypass and floodway	NE	<input type="checkbox"/> <input type="checkbox"/> C-M	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	B-H ●●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
Physical Habitat Restoration Bundles								
18. Restore habitat in the north, east, and west	B-H ●●●	<input type="checkbox"/> <input type="checkbox"/> C-L	B-H ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-L ●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-H ●●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
19. Restore habitat in the central Delta	B-H ●●●	<input type="checkbox"/> C-L	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-L ●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
20. Restore habitat in the south Delta	B-M ●●	<input type="checkbox"/> C-L	B-L ●	<input type="checkbox"/> C-L	B-L ●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H
21. Restore Suisun Marsh habitat	B-H ●●●	<input type="checkbox"/> C-L	B-L ●	<input type="checkbox"/> C-L	B-L ●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	B-H ●●●	<input type="checkbox"/> <input type="checkbox"/> C-M
22. Restore habitat upstream of Delta	NE	<input type="checkbox"/> <input type="checkbox"/> C-M	B-M ●●	<input type="checkbox"/> <input type="checkbox"/> C-M	B-H ●●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H	B-H ●●●	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C-H